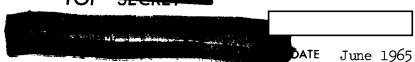
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CENTRAL INTELLIGENCE AGENCY
PHOTOGRAPHIC INTELLIGENCE DIVISION
PHOTOGRAPHIC INTELLIGENCE REPORT

SUSPECT GALOSH LAUNCH SITE

FROM

"ROCKETS ON GUARD FOR PEACE"

(SOVIET SOURCE)

CIA/PIR-1014/65



**DECLASS REVIEW by NIMA/DOD** 

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GROUP 1 Excluded from automatic owngrading and declassification

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CIA, PHOTOGRAPHIC INTELLIGENCE DIVISION	
SUSPECT GALOSH LAUNCH SITE  From  "ROCKETS ON GUARD FOR PEACE"  (SOVIET SOURCE)	
The Soviet film "Rockets on Guard for Peace" shows what probably is the launching of a Galosh missile from a launch point in the vicinity of a self supporting lattice-tower. This report concerns the analysis of this film and photographic coverage of the Soviet Union, with the view of identifying the specific launch position used to launch the missile.	
The following facts and assumptions bear on the problem:	
<u>Facts</u>	
(1) The Soviet film reveals a missile being launched from a container which closely resembles the Galosh container revealed in recent Moscow parades.	
(2) The container cover pops off prior to the launch of the missile, and during the filmed sequence flies in an arc behind the adjacent tower, thus revealing that the tower is closer to the camera than the erected missile.	
(3) Smoke and dust, resulting from the missile's deflected jet, billow quickly outward and engulf the tower in two to three seconds of film time.	
(4) The tower shown in the movie is a lattice, self supporting tower with square or rectangular platform mounted on top.	
(5) Known launch facilities were examined on photography and it was found that self supporting lattice towers with rectangular or square platforms can be found near a number of launch positions. These include positions at Kapustin Yar, Tyuratam, and Sary Shagan.	25)
Assumptions	
(1) The launch filmed by the Soviets occurred during a time frame which permits use of recent high quality photography in this analysis.	
(2) The Soviets projected the film in the correct orientation, and did not edit the film. In other words, the film was not projected with a single mirror reversal.	•
(3) The missile container, erected for launch, was elevated so the	

bottom of the container was 5 feet above the launch pad surface.

A meaningful accuracy statement could not be made regarding the Soviet TV film "Missiles on Guard for Peace".

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does not confir	m the presence of a	platform. How	ever, it must b	e realized
	is not falling on		ground; in any	case some
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	are candidates. Ea See Attachment 3.			
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possible platform, however, it appears to be a few feet smaller than the platform at (1). The towers adjacent the eastern loop road at Facility D are too small to be considered good candidates.

The evidence favoring Launch Complex A, Launch Site 3, Launch Position 5 is as follows:

- 1. The height of the tower.
- 2. Presence of a suspect platform, having a reasonably similar dimension.
- 3. Reasonable proximity to the suspected location of the Galosh launch.

The evidence which probably negates Launch Complex A, Launch Site 3, Launch Position 5 is as follows:

1. The tower is too wide at the 50 foot elevation, even with a reasonable margin of error.

The evidence which tends to favor Launch Complex B, Facility D, West Launch pad, is as follows:

- 1. With the possible margins of error applied, the height of the lattice towers is reasonable, and platforms are present.
- 2. With a Galosh on the west launch pad, and inclined toward impact areas to the west, the tower annotated (2) could be the tower in the movie sequence, if the missile were erected on the portion of the pad east of the or equipment and the camera was located someplace in the area just west of the western half-moon position at Facility B.
- 3. With margins of error applied, the width of the towers at Facility D, Launch Complex B, is reasonably similar to the width of the tower shown in the Soviet movie.
- 4. The close proximity of the towers to the launch pad, between 100 and 150 feet (depending on exactly where on the pad area the missile was erected).
  - 5. The wide tower at Launch Complex A tends to leave no strong contender.

The evidence which causes some doubt about Facility D, Launch Complex B is as follows:

The close grouping of towers around the launch pad. It seems as if one of the other towers would appear in the picture format, yet in the Soviet movie there is no evidence of other towers in the background.

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	2. The loop road launch positions at Facility D were possibly constructed with the view of working in conjunction with the electronics being installed at the Building Triad (Facility C). The latter facility continues to show evidence of construction activity, despite the fact the structures appear externally complete. If the building triad is not operational, it would seem that the launch positions at Facility D might not be used.
	Conclusions
	The mensural evidence against Launch Complex A, Launch Site 3 as the launch site for the Galosh in the Soviet movie seems to be fairly conclusive, thus leaving Launch Complex B, Facility D as the most likely candidate by default. Nevertheless, Launch Complex B has strong evidence in its favor as well. As regards the negative evidence mentioned above, it is believed that a proper viewing angle and the use of a telephoto lens would permit photographing a launch from the western pad at Facility D, with only one tower in the picture, and that tower to the right of the camera axis while the missile was generally left of the same axis, and at the same time exclude the other towers from the picture format. As for the operational status of the building triad, it is not possible to negate this point. The tower on top of the large building had a dish mounted on top as early as The eastern loop at Facility D was present as early as and was possibly under construction in An outline of the western loop was first evident on An outline of the western loop was first evident on and negated on Nevertheless, in view of the many assumptions required to accomplish this project, it is not possible to use a stronger term than "suspect" location of the Galosh launch (See Attachment 3) at Facility D, Complex B.
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